Subject Index

Acoustic waves

Acoustic Wave Speeds for Slurries in Pipelines, Chyr Pying Liou, HY July 84 p945-957.

Advection

Advective Acceleration and Mass Transport in Estuaries, Wu-Seng Lung, HY Sept. 86 p874-878.

Unified Theory for Flood and Pollution Routing, Antonis D. Koussis, HY Dec. 83 p1652-1664.

Aerial photographs

Method for Computing Bed Profiles During Floods, Saburo Komura, HY Sept. 86 p833-846.

Aggradation

River-Bed Profiles with Imposed Sediment Load, Inbo Park and Subhash C. Jain, HY Apr. 86 p267-280.

Agricultural watersheds

Sediment Yield from Agricultural Watersheds, I. Bogardi, A. Bardossy, M. Fogel and L. Duckstein, HY Jan. 86 p64-70.

Air flow

Two Characteristic Features of the Airflow Boundary Layer over Sand, Jim Wu, HY Oct. 86 p976-978.

Algorithms

Hydraulic Design Algorithms for Pipe Networks, Lindell E. Ormsbee and Don J. Wood, HY Dec. 86 p1195-1207.

Alluvial channels

Flow and Bed Profile in Meandering Sand-Silt Rivers, Syunsuke Ikeda and Tatsuya Nishimura, HY July 86 p562-579.

Meander Flow Model I: Development, A. Jacob Odgaard, HY Dec. 86 p1117-1136.

Meander Flow Model II: Applications, A. Jacob Odgaard, HY Dec. 86 p1137-1150.

Sediment Control by Submerged Vanes, A. Jacob Odgaard and Anita Spoljaric, HY Dec. 86 p1164-1181.

Sediment Transport, Part III: Bed Forms and Alluvial Roughness, Leo C. van Rijn, HY Dec. 84 p1733-1754.

Alluvial streams

Armoring and Sorting Simulation in Alluvial Rivers, M. Fazle Karim and Forrest M. Holly, HY Aug. 86 p705-715.

Curvature Ratio and Rate of River Bend Migration—Update, Ze'ev B. Begin, HY Oct. 86 p904-908.

Method for Computing Bed Profiles During Floods, Saburo Komura, HY Sept. 86 p833-846.

Anemometers

Open-Channel Flow Measurements with a Laser Doppler Anemometer, Iehisa Nezu and Wolfgang Rodi, HY May 86 p335-355.

Arches

Flexural-Torsional Buckling of Arches, John P. Papangelis and Nicholas S. Trahair, HY Nov. 86 p2494-2511.

Auto-regressive moving-average model

Example of Flow Forecasting with Kalman Filter, Patricia Ngan and S. O. Russell, HY Sept. 86 p818-832.

Backwater

Friction Slope Averaging in Backwater Calculations, Eric M. Laurenson, HY Dec. 86 p1151-1163.

PIBS Model for Surcharged Pipe Flow, Chen Yu Chiang and Philip B. Bedient, HY Mar. 86 p181-192.

Selecting Terminal Water Surface Elevations, Lester S. Dixon and Belinda A. Sullivan, HY May 86 p428-431.

Bars, riverine

Formation and Effects of Alternate Bars, Martin N. R. Jaeggi, HY Feb. 84 p142-156.

Bed load

Expected Transport Rate of Material on Seabed, Hidehiro Katsui and Eco W. Bijker, HY Sept. 86 p861-867.

Sediment Transport Formula for Steep Channels, Graeme M. Smart, HY Mar. 84 p267-276.

Bed load movement

Application of Sediment Pick-Up Function, Leo C. van Rijn, HY Sept. 86 p867-874.

Bed Load Transport of Sediment Mixtures, R. Samaga Belle, G. Ranga Raju Kuttur and J. Garde Ramchandra, HY Nov. 86 p1003-1018.

Stable Channels with Mobile Gravel Beds, Richard D. Hey and Colin R. Thorne, HY Aug. 86 p671-689.

Bed ripples

Analytical Study on Steepness of Ripples and Dunes, Muhammad I. Haque and Khalid Mahmood, HY Mar. 86 p220-236.

Bedforms

Analytical Study on Steepness of Ripples and Dunes, Muhammad I. Haque and Khalid Mahmood, HY Mar. 86 p220-236.

Formation and Effects of Alternate Bars, Martin N. R. Jaeggi, HY Feb. 84 p142-156.

A Model for Flow over Two-Dimensional Bed Forms, S. R. McLean and J. Dungan Smith, HY Apr. 86 p300-317.

Sediment Transport, Part III: Bed Forms and Alluvial Roughness, Leo C. van Rijn, HY Dec. 84 p1733-1754.

Boundary layer

A Model for Flow over Two-Dimensional Bed

Forms, S. R. McLean and J. Dungan Smith, HY Apr. 86 p300-317.

Two Characteristic Features of the Airflow Boundary Layer over Sand, Jim Wu, HY Oct. 86 p976-978.

Boundary shear

Flood Plain and Main Channel Flow Interaction, Donald W. Knight and John D. Demetriou, HY Aug. 83 p1073-1092.

Structure of 3-D Flow in Rectangular Open Channels, Chao-Lin Chiu and Jyh-Dong Chiou, HY Nov. 86 p1050-1068.

Bridges, piers

Functional Trends of Scour at Bridge Piers, Arved J. Raudkivi, HY Jan. 86 p1-13.

Bubbles

Development of a Hydrogen Bubble Velocity Meter, Christopher R. Ellis and Heinz G. Stefan, HY Jan. 86 p59-64.

Buckling

Flexural-Torsional Buckling of Arches, John P. Papangelis and Nicholas S. Trahair, HY Nov. 86 p2494-2511.

Buoyancy

Behavior of Density Currents on an Incline, Vahid Alavian, HY Jan. 86 p27-42.

Spreading Layer of a Two-Dimensional Buoyant Jet, Roger B. Wallace and Steven J. Wright, HY June 84 p813-828.

Buoyant jets

Inclined Plane Buoyant Jet in Stratified Fluid, Joseph H. W. Lee and Valiant W. L. Cheung, HY July 86 p580-589.

Spreading Layer of a Two-Dimensional Buoyant Jet, Roger B. Wallace and Steven J. Wright, HY June 84 p813-828.

Calibration

Practical Aspects of Accurate Tidal Computations, G. S. Stelling, A. K. Wiersma and J. B. T. M. Willemse, HY Sept. 86 p802-817.

V-Notch Weir Calibration Using New Parameters, Robert N. Eli, HY Apr. 86 p321-325.

Capacity

Hydraulic Uncertainties in Flood Levee Capacity, Han-Lin Lee and Larry W. Mays, HY Oct. 86 p928-934.

Case reports

Transformation of PMP to PMF: Case Studies, Bi-Huei Wang and Khalid Jawed, HY July 86 p547-561.

Catchments

Diffusion Wave Modeling of Catchment Dynamics, Victor Miguel Ponce, HY Aug. 86 p716-727.

Cavitation

Lessons from a Career in Hydraulics, James Daily, HY Sept. 86 p779-793.

Channel beds

Analysis and Comparisons of Degradation Models, Jau-Yau Lu and Hsieh W. Shen, HY Apr. 86 p281-299.

Channel bends

Curvature Ratio and Rate of River Bend Migration—Update, Ze'ev B. Begin, HY Oct. 86 p904-908.

Flow in Curved Converging Channel, Anastasia Damaskinidou-Georgiadou and Kenneth V. H. Smith, HY June 86 p476-496.

Turbulent Structure in a River Bend, Habib O. Anwar, HY Aug. 86 p657-669.

Channel design

Selecting Terminal Water Surface Elevations, Lester S. Dixon and Belinda A. Sullivan, HY May 86 p428-431.

Stable Channels with Mobile Gravel Beds, Richard D. Hey and Colin R. Thorne, HY Aug. 86 p671-689.

Channel flow

Coriolis Generated Secondary Currents in Channels, Rolf Larsson, HY Aug. 86 p750-767.

Flood Plain and Main Channel Flow Interaction, Donald W. Knight and John D. Demetriou, HY Aug. 83 p1073-1092.

Flow in Curved Converging Channel, Anastasia Damaskinidou-Georgiadou and Kenneth V. H. Smith, HY June 86 p476-496.

Turbulence Modelling of Flood Plain Flows, Bommanna G. Krishnappan and Y. Lam Lau, HY Apr. 86 p251-266.

Channel morphology

Analytical Study on Steepness of Ripples and Dunes, Muhammad I. Haque and Khalid Mahmood, HY Mar. 86 p220-236.

River Channel Changes: Adjustments of Equilibrium, Howard H. Chang, HY Jan. 86 p43-55.

Channel stabilization

River Channel Changes: Adjustments of Equilibrium, Howard H. Chang, HY Jan. 86 p43-55.

Channels, waterways

Computation of Dynamic Waves in Channel Networks, Ian B. Joliffe, HY Oct. 84 p1358-1370.

Flood Plain and Main Channel Flow Interaction, Donald W. Knight and John D. Demetriou, HY Aug. 83 p1073-1092.

Sediment Transport Formula for Steep Channels, Graeme M. Smart, HY Mar. 84 p267-276.

Circulation

Two-Dimensional Mass Transport in Estuaries, Wu-Seng Lung and Donald J. O'Connor, HY Oct. 84 p1340-1357.

Closed form solutions

Flexural-Torsional Buckling of Arches, John P. Papangelis and Nicholas S. Trahair, HY Nov. 86 p2494-2511.

Cohesive sediment

Cohesive Sediment Transport Model, John Nicholson and Brian A. O'Connor, HY July 86 p621-640.

Comparative studies

Analysis and Comparisons of Degradation Models, Jau-Yau Lu and Hsieh W. Shen, HY Apr. 86 p281-299.

Computation

Computation of Dynamic Waves in Channel Networks, Ian B. Joliffe, HY Oct. 84 p1358-1370.

Cooling water

Model for Vertical Diffusion in Stratified Flows, Gerard A. L. Delvigne, HY Nov. 86 p1069-1086.

Currents

Development of a Hydrogen Bubble Velocity Meter, Christopher R. Ellis and Heinz G. Stefan, HY Jan. 86 p59-64.

Curvature

Curvature Ratio and Rate of River Bend Migration—Update, Ze'ev B. Begin, HY Oct. 86 p904-908.

Degradation

Analysis and Comparisons of Degradation Models, Jau-Yau Lu and Hsieh W. Shen, HY Apr. 86 p281-299.

Simulation of Missouri River Bed Degradation, Forrest M. Holly, Jr. and M. Fazle Karim, HY June 86 p497-517.

Deltas

Non-Conventional Solution for River Mouth Design, Martin N. R. Jaeggi, HY Jan. 86 p14-26.

Density currents

Behavior of Density Currents on an Incline, Vahid Alavian, HY Jan. 86 p27-42.

Design events

Recurrence Interval of Long Hydrologic Events, R. Srikanthan and T. A. McMahon, HY June 86 p518-538.

Diffusion

Diffusion Wave Modeling of Catchment Dynamics, Victor Miguel Ponce, HY Aug. 86 p716-727.

Model for Vertical Diffusion in Stratified Flows, Gerard A. L. Delvigne, HY Nov. 86 p1069-1086.

Unified Theory for Flood and Pollution Routing, Antonis D. Koussis, HY Dec. 83 p1652-1664.

Dimensional analysis

Spreading Layer of a Two-Dimensional Buoyant Jet, Roger B. Wallace and Steven J. Wright, HY June 84 p813-828.

Discharge measurement

V-Notch Weir Calibration Using New Parameters, Robert N. Eli, HY Apr. 86 p321-325.

Dispersion

Dispersion Tensor In Rotating Flows, Vahid Alavan, HY Aug. 86 p771-777.

Estimation of Dispersion Coefficients in Porous Media, David A. Chin, HY July 86 p591-609.

Spreading Layer of a Two-Dimensional Buoyant Jet, Roger B. Wallace and Steven J. Wright, HY June 84 p813-828.

Unified Theory for Flood and Pollution Routing, Antonis D. Koussis, HY Dec. 83 p1652-1664.

Downpull

Prediction and Control of Downpull on Tunnel Gates, Eduard Naudascher, Palepu V. Rao, Andreas Richter, Patricio Vargas and Georg Wonik, HY May 86 p392-416.

Drag

Rectangular Cylinders in Flows with Harmonic Perturbations, Charles Knisely, Masaru Matsumoto and Friedrich Menacher, HY Aug. 86 p690-704.

Drainage

Computation of Dynamic Waves in Channel Networks, Ian B. Joliffe, HY Oct. 84 p1358-1370.

Design of Structures With Intermediate Filters, Akhilesh Kumar, Bharat Singh and Amrik S. Chawla, HY Mar. 86 p206-219.

Dredging

Non-Conventional Solution for River Mouth Design, Martin N. R. Jaeggi, HY Jan. 86 p14-26.

Droughts

Recurrence Interval of Long Hydrologic Events, R. Srikanthan and T. A. McMahon, HY June 86 p518-538.

Dunes

Analytical Study on Steepness of Ripples and Dunes, Muhammad I. Haque and Khalid Mahmood, HY Mar. 86 p220-236.

Eddy viscosity

Free-Surface Air Core Vortex, A. Jacob Odgaard, HY July 86 p610-620.

Energy dissipators

Incipient Jump Condition for Ventilated Sill Flow, Willi H. Hager, Bruno Basler and Robert Wanoschek, HY Oct. 86 p953-963.

Entrainment

Behavior of Density Currents on an Incline, Vahid Alavian, HY Jan. 86 p27-42.

Equifers

Errors in the Hydraulic Approach to Flows in Semi-Confined Aquifers, Olu Lafe, HY Oct. 86 p881-889.

Equilibrium

River Channel Changes: Adjustments of Equilibrium, Howard H. Chang, HY Jan. 86 p43-55.

Erosion

Curvature Ratio and Rate of River Bend Migration—Update, Ze'ev B. Begin, HY Oct. 86 p904-908.

Functional Trends of Scour at Bridge Piers, Arved J. Raudkivi, HY Jan. 86 p1-13.

Meander Flow Model I: Development, A. Jacob Odgaard, HY Dec. 86 p1117-1136.

Meander Flow Model II: Applications, A. Jacob Odgaard, HY Dec. 86 p1137-1150.

Two Characteristic Features of the Airflow Boundary Layer over Sand, Jim Wu, HY Oct. 86 p976-978.

Errors

Errors in Stormwater Modeling—A Quantitative Assessment, Wolfgang Schilling and Lothar Fuchs, HY Feb. 86 p111-123.

Errors in the Hydraulic Approach to Flows in Semi-Confined Aquifers, Olu Lafe, HY Oct. 86 p881-889.

Estuaries

Advective Acceleration and Mass Transport in Estuaries, Wu-Seng Lung, HY Sept. 86 p874-878.

Selecting Terminal Water Surface Elevations, Lester S. Dixon and Belinda A. Sullivan, HY May 86 p428-431.

Turbulence Measurements in the Great Ouse Estuary, John R. West, Donald W. Knight and Koji Shiono, HY Mar. 86 p167-180.

Two-Dimensional Mass Transport in Estuaries, Wu-Seng Lung and Donald J. O'Connor, HY Oct. 84 p1340-1357.

Field tests

Slope-Area Discharge Gaging in Mountain Rivers, James C. Bathurst, HY May 86 p376-391.

Filters

Design of Structures With Intermediate Filters, Akhilesh Kumar, Bharat Singh and Amrik S. Chawla, HY Mar. 86 p206-219.

Finite element method

Explicit Computation of Discontinuous Channel Flow, Nikolaos D. Katopodes and Chien-Tai Wu, HY June 86 p456-475.

Fish

Lessons from a Career in Hydraulics, James Daily, HY Sept. 86 p779-793.

Fish protection

Use of a Modified Traveling Screen for Improving Fish Survival, Edward P. Taft, III, Yusuf G. Mussalli, John K. Downing and James O'Neil, HY Mar. 86 p239-242.

Fish screens

Use of a Modified Traveling Screen for Improving Fish Survival, Edward P. Taft, III, Yusuf G. Mussalli, John K. Downing and James O'Neil, HY Mar. 86 p239-242.

Fishways

Hydraulics of Vertical Slot Fishways, Nallamuthu, Rajaratnam, Gary Van der Vinne and Christos Katopodis, HY Oct. 86 p909-927.

Flood control

Selecting Terminal Water Surface Elevations, Lester S. Dixon and Belinda A. Sullivan, HY May 86 p428-431.

Flood forecasting

Transformation of PMP to PMF: Case Studies, Bi-Huei Wang and Khalid Jawed, HY July 86 p547-561.

Flood plains

Flood Plain and Main Channel Flow Interaction, Donald W. Knight and John D. Demetriou, HY Aug. 83 p1073-1092.

Turbulence Modelling of Flood Plain Flows, Bommanna G. Krishnappan and Y. Lam Lau, HY Apr. 86 p251-266.

Flood routing

Unified Theory for Flood and Pollution Routing, Antonis D. Koussis, HY Dec. 83 p1652-1664.

Floods

Method for Computing Bed Profiles During Floods, Saburo Komura, HY Sept. 86 p833-846.

Flow characteristics

Downstream Transition of River Ice Jams, S. Beltaos and J. Wong, HY Feb. 86 p91-110.

Turbulence Modelling of Flood Plain Flows, Bommanna G. Krishnappan and Y. Lam Lau, HY Apr. 86 p251-266.

Flow measurement

Cut-Throat Flume Characteristics, Robert J. Keller, HY Sept. 84 p1248-1263.

Open-Channel Flow Measurements with a Laser Doppler Anemometer, Iehisa Nezu and Wolfgang Rodi, HY May 86 p335-355.

Slope-Area Discharge Gaging in Mountain Rivers, James C. Bathurst, HY May 86 p376-391.

Turbulence Measurements in the Great Ouse Estuary, John R. West, Donald W. Knight and Koji Shiono, HY Mar. 86 p167-180.

Flow rates

Hydraulics of Vertical Slot Fishways, Nallamuthu, Rajaratnam, Gary Van der Vinne and Christos Katopodis, HY Oct. 86 p909-927.

Prediction and Control of Downpull on Tunnel Gates, Eduard Naudascher, Palepu V. Rao, Andreas Richter, Patricio Vargas and Georg Wonik, HY May 86 p392-416.

Simple Model of Sediment-Laden Flows, Gary Parker and Neil L. Coleman, HY May 86 p356-375.

Flow resistance

Flow Resistance of River Ice Cover, Hung Tao Shen and Poojitha D. Yapa, HY Feb. 86 p142-156.

Formation and Effects of Alternate Bars, Martin N. R. Jaeggi, HY Feb. 84 p142-156.

Slope-Area Discharge Gaging in Mountain Rivers, James C. Bathurst, HY May 86 p376-391.

Unsteady Flow Simulation for an Ice-Covered River, Poojitha D. Yapa and Hung Tao Shen, HY Nov. 86 p1036-1049.

Flow separation

A Model for Flow over Two-Dimensional Bed Forms, S. R. McLean and J. Dungan Smith, HY Apr. 86 p300-317.

Flow simulation

Computation of Dynamic Waves in Channel Networks, Ian B. Joliffe, HY Oct. 84 p1358-1370.

Explicit Computation of Discontinuous Channel Flow, Nikolaos D. Katapodes and Chien-Tai Wu, HY June 86 p456-475.

Meander Flow Model I: Development, A. Jacob Odgaard, HY Dec. 86 p1117-1136.

Meander Flow Model II: Applications, A. Jacob Odgaard, HY Dec. 86 p1137-1150.

Unsteady Flow Simulation for an Ice-Covered River, Poojitha D. Yapa and Hung Tao Shen, HY Nov. 86 p1036-1049.

Fluid flow

Cut-Throat Flume Characteristics, Robert J. Keller, HY Sept. 84 p1248-1263.

Fluid-structure interaction

Acoustic Wave Speeds for Slurries in Pipelines, Chyr Pying Liou, HY July 84 p945-957.

Flumes

Experimental Studies on Sedimentation Due to Water Withdrawal, Peter J. M. Kerssens and Anne van Urk, HY July 86 p641-656.

Sediment Transport Formula for Steep Channels, Graeme M. Smart, HY Mar. 84 p267-276.

Friction

Flood Plain and Main Channel Flow Interaction, Donald W. Knight and John D. Demetriou, HY Aug. 83 p1073-1092.

Friction factor

Sediment Transport, Part III: Bed Forms and Alluvial Roughness, Leo C. van Rijn, HY Dec. 84 p1733-1754.

Simulation of Missouri River Bed Degradation, Forrest M. Holly, Jr. and M. Fazle Karim, HY June 86 p497-517.

Gates

Forces on Lifting Beams Used with Three-Leaf Intake Gates, Theodoric G. Fain and Svein Vigander, HY Sept. 86 p847-858.

Geomorphology

Fate of Navigation Pool on Mississippi River, Nani G. Bhowmik, J. Rodgers Adams and Richard E. Sparks, HY Oct. 86 p967-970.

Gradient

Design of Structures With Intermediate Filters, Akhilesh Kumar, Bharat Singh and Amrik S. Chawla, HY Mar. 86 p206-219.

Grain size

Sediment Transport Formula for Steep Channels, Graeme M. Smart, HY Mar. 84 p267-276.

Granular media

Downstream Transition of River Ice Jams, S. Beltaos and J. Wong, HY Feb. 86 p91-110.

Gravel

Stable Channels with Mobile Gravel Beds, Richard D. Hey and Colin R. Thorne, HY Aug. 86 p671-689.

Great Lakes

Record St. Clair River Ice Jam of 1984, Jan A. Derecki and Frank H. Quinn, HY Dec. 86 p1182-1194.

Groundwater flow

Approximate Solution of Unsteady Groundwater Flows, Samuel O. Onyegegbu, HY Oct. 86 p971-975.

Errors in the Hydraulic Approach to Flows in Semi-Confined Aquifers, Olu Lafe, HY Oct. 86 p881-889.

Estimation of Dispersion Coefficients in Porous Media, David A. Chin, HY July 86 p591-609.

Head gates

Prediction and Control of Downpull on Tunnel Gates, Eduard Naudascher, Palepu V. Rao, Andreas Richter, Patricio Vargas and Georg Wonik, HY May 86 p392-416.

History

Advances in Hydraulic Engineering Practice: The Last Four Decades and Beyond, Rex A. Elder, HY Feb. 86 p73-89.

Lessons from a Career in Hydraulics, James Daily, HY Sept. 86 p779-793.

Horizontal flow

Errors in the Hydraulic Approach to Flows in Semi-Confined Aquifers, Olu Lafe, HY Oct. 86 p881-889.

Hydraulic design

Hydraulic Design Algorithms for Pipe Networks, Lindell E. Ormsbee and Don J. Wood, HY Dec. 86 p1195-1207.

Hydraulic engineering

Advances in Hydraulic Engineering Practice: The Last Four Decades and Beyond, Rex A. Elder, HY Feb. 86 p73-89.

Hydraulic jump

Explicit Computation of Discontinuous Channel Flow, Nikolaos D. Katapodes and Chien-Tai Wu, HY June 86 p456-475.

Incipient Jump Condition for Ventilated Sill Flow, Willi H. Hager, Bruno Basler and Robert Wanoschek, HY Oct. 86 p953-963.

Hydraulic models

Free-Surface Air Core Vortex, A. Jacob Odgaard, HY July 86 p610-620.

PIBS Model for Surcharged Pipe Flow, Chen Yu Chiang and Philip B. Bedient, HY Mar. 86 p181-192.

Segmental Hydraulic Similarity in One-Dimensional Retarding Flow, Oner Yucel, HY May 86 p419-428.

Hydraulic roughness

Flow Resistance of River Ice Cover, Hung Tao Shen and Poojitha D. Yapa, HY Feb. 86 p142-156.

Hydraulic servomechanisms

Lessons from a Career in Hydraulics, James Daily, HY Sept. 86 p779-793.

Hydraulic structures

Design of Structures With Intermediate Filters, Akhilesh Kumar, Bharat Singh and Amrik S. Chawla, HY Mar. 86 p206-219.

Hydraulic Uncertainties in Flood Levee Capacity, Han-Lin Lee and Larry W. Mays, HY Oct. 86 p928-934.

Hydraulics of Vertical Slot Fishways, Nallamuthu, Rajaratnam, Gary Van der Vinne and Christos Katopodis, HY Oct. 86 p909-927.

Hydraulic transients

Acoustic Wave Speeds for Slurries in Pipelines, Chyr Pying Liou, HY July 84 p945-957.

Hydraulics

Cut-Throat Flume Characteristics, Robert J. Keller, HY Sept. 84 p1248-1263.

Distribution Channels, W. H. Hager and P. U. Volkart, HY Oct. 86 p935-952.

Infinitesimal Cross-Wave Analysis, Willi H. Hager and Mustapha S. Altinakar, HY Aug. 84 p1145-1150.

Hydrodynamics

Dynamics of Jets in Two-Layer Stratified Fluids, Philip J. W. Roberts and P. Reid Matthews, HY Sept. 84 p1201-1217.

Prediction and Control of Downpull on Tunnel Gates, Eduard Naudascher, Palepu V. Rao, Andreas Richter, Patricio Vargas and Georg Wonik, HY May 86 p392-416.

Hydrographs

Errors in Stormwater Modeling—A Quantitative Assessment, Wolfgang Schilling and Lothar Fuchs, HY Feb. 86 p111-123.

Hydrologic data

Transformation of PMP to PMF: Case Studies, Bi-Huei Wang and Khalid Jawed, HY July 86 p547-561.

Hydrology

PIBS Model for Surcharged Pipe Flow, Chen Yu Chiang and Philip B. Bedient, HY Mar. 86 p181-192.

Recurrence Interval of Long Hydrologic Events, R. Srikanthan and T. A. McMahon, HY June 86 p518-538.

Ice cover

Flow Resistance of River Ice Cover, Hung Tao Shen and Poojitha D. Yapa, HY Feb. 86 p142-156.

Unsteady Flow Simulation for an Ice-Covered River, Poojitha D. Yapa and Hung Tao Shen, HY Nov. 86 p1036-1049.

Ice jams

Downstream Transition of River Ice Jams, S. Beltaos and J. Wong, HY Feb. 86 p91-110.

Record St. Clair River Ice Jam of 1984, Jan A. Derecki and Frank H. Quinn, HY Dec. 86 p1182-1194.

Intake structures

Forces on Lifting Beams Used with Three-Leaf Intake Gates, Theodoric G. Fain and Svein Vigander, HY Sept. 86 p847-858.

Intakes

Experimental Studies on Sedimentation Due to Water Withdrawal, Peter J. M. Kerssens and Anne van Urk, HY July 86 p641-656.

Free-Surface Air Core Vortex, A. Jacob Odgaard, HY July 86 p610-620.

Use of a Modified Traveling Screen for Improving Fish Survival, Edward P. Taft, III, Yusuf G. Mussalli, John K. Downing and James O'Neil, HY Mar. 86 p239-242.

Jets

Dynamics of Jets in Two-Layer Stratified Fluids, Philip J. W. Roberts and P. Reid Matthews, HY Sept. 84 p1201-1217.

Kalman filter

Example of Flow Forecasting with Kalman Filter, Patricia Ngan and S. O. Russell, HY Sept. 86 p818-832.

Laboratories

Development of a Hydrogen Bubble Velocity Meter, Christopher R. Ellis and Heinz G. Stefan, HY Jan. 86 p59-64.

Segmental Hydraulic Similarity in One-Dimensional Retarding Flow, Oner Yucel, HY May 86 p419-428.

Lakes

Weather-Based Variations in Thermal Stratification, Steven W. Effler, Emmet M. Owens, Keith Schimel and John Dobi, HY Feb. 86 p159-165.

Levees

Hydraulic Uncertainties in Flood Levee Capacity, Han-Lin Lee and Larry W. Mays, HY Oct. 86 p928-934.

Lifting

Forces on Lifting Beams Used with Three-Leaf Intake Gates, Theodoric G. Fain and Svein Vigander, HY Sept. 86 p847-858.

Mass transport

Advective Acceleration and Mass Transport in Estuaries, Wu-Seng Lung, HY Sept. 86 p874-878.

Dispersion Tensor In Rotating Flows, Vahid Alavan, HY Aug. 86 p771-777.

Two-Dimensional Mass Transport in Estuaries, Wu-Seng Lung and Donald J. O'Connor, HY Oct. 84 p1340-1357.

Mathematical models

Analysis and Comparisons of Degradation Models, Jau-Yau Lu and Hsieh W. Shen, HY Apr. 86 p281-299.

Cohesive Sediment Transport Model, John Nicholson and Brian A. O'Connor, HY July 86 p621-640.

Experimental Studies on Sedimentation Due to Water Withdrawal, Peter J. M. Kerssens and Anne van Urk, HY July 86 p641-656.

Flow and Bed Profile in Meandering Sand-Silt Rivers, Syunsuke Ikeda and Tatsuya Nishimura, HY July 86 p562-579.

Weather-Based Variations in Thermal Stratification, Steven W. Effler, Emmet M. Owens, Keith Schimel and John Dobi, HY Feb. 86 p159-165.

Maximum probable flood

Transformation of PMP to PMF: Case Studies, Bi-Huei Wang and Khalid Jawed, HY July 86 p547-561.

Meandering streams

Flow and Bed Profile in Meandering Sand-Silt Rivers, Syunsuke Ikeda and Tatsuya Nishimura, HY July 86 p562-579.

Formation and Effects of Alternate Bars, Martin N. R. Jaeggi, HY Feb. 84 p142-156.

Meanders

Meander Flow Model I: Development, A. Jacob Odgaard, HY Dec. 86 p1117-1136.

Meander Flow Model II: Applications, A. Jacob Odgaard, HY Dec. 86 p1137-1150.

Measuring instruments

Development of a Hydrogen Bubble Velocity Meter, Christopher R. Ellis and Heinz G. Stefan, HY Jan. 86 p59-64.

Meteorological data

Weather-Based Variations in Thermal Stratification, Steven W. Effler, Emmet M. Owens, Keith Schimel and John Dobi, HY Feb. 86 p159-165.

Migration

Curvature Ratio and Rate of River Bend Migration—Update, Ze'ev B. Begin, HY Oct. 86 p904-908.

Mississippi River

Fate of Navigation Pool on Mississippi River, Nani G. Bhowmik, J. Rodgers Adams and Richard E. Sparks, HY Oct. 86 p967-970.

Missouri River

Armoring and Sorting Simulation in Alluvial Rivers, M. Fazle Karim and Forrest M. Holly, HY Aug. 86 p705-715.

Simulation of Missouri River Bed Degradation, Forrest M. Holly, Jr. and M. Fazle Karim, HY June 86 p497-517.

Mixing

Dispersion Tensor In Rotating Flows, Vahid Alavan, HY Aug. 86 p771-777.

Inclined Plane Buoyant Jet in Stratified Fluid, Joseph H. W. Lee and Valiant W. L. Cheung, HY July 86 p580-589.

Mixtures

Suspended Load Transport of Sediment Mixtures, R. Samaga Belle, G. Ranga Raju Kittur and J. Garde Ramchandra, HY Nov. 86 p1019-1035.

Model verification

Skill Tests and Parametric Statistics for Model Evaluation, J. Steven Dingman and Keith W. Bedford, HY Feb. 86 p124-141.

Momentum transfer

Flood Plain and Main Channel Flow Interaction, Donald W. Knight and John D. Demetriou, HY Aug. 83 p1073-1092.

Mountain streams

Slope-Area Discharge Gaging in Mountain Rivers, James C. Bathurst, HY May 86 p376-391.

Navigation dams

Fate of Navigation Pool on Mississippi River, Nani G. Bhowmik, J. Rodgers Adams and Richard E. Sparks, HY Oct. 86 p967-970.

Network analysis

Pipe Network Analysis by Partial Pivoting Method, Ayodeji O. Demuren and Felix J. K. Ideriah, HY May 86 p327-334.

System Dynamics Approach to Pipe Network Analysis, Kotaro Onizuka, HY Aug. 86 p728-749.

Nonuniform flow

Mathematical Modeling of Suspended Sediment in NonUniform Flows, Leo C. van Rijn, HY June 86 p433-455.

Numerical calculations

Unified Theory for Flood and Pollution Routing, Antonis D. Koussis, HY Dec. 83 p1652-1664.

Numerical models

Computation of Dynamic Waves in Channel Networks, Ian B. Joliffe, HY Oct. 84 p1358-1370.

Flow in Curved Converging Channel, Anastasia Damaskinidou-Georgiadou and Kenneth V. H. Smith, HY June 86 p476-496.

Model for Vertical Diffusion in Stratified Flows, Gerard A. L. Delvigne, HY Nov. 86 p1069-1086.

River-Bed Profiles with Imposed Sediment Load, Inbo Park and Subhash C. Jain, HY Apr. 86 p267-280.

Turbulence Modelling of Flood Plain Flows, Bommanna G. Krishnappan and Y. Lam Lau, HY Apr. 86 p251-266.

Offshore pipeline

Expected Transport Rate of Material on Seabed, Hidehiro Katsui and Eco W. Bijker, HY Sept. 86 p861-867.

One-dimensional flow

Segmental Hydraulic Similarity in One-Dimensional Retarding Flow, Oner Yucel, HY May 86 p419-428.

Open channel flow

Cut-Throat Flume Characteristics, Robert J. Keiler, HY Sept. 84 p1248-1263.

Distribution Channels, W. H. Hager and P. U. Volkart, HY Oct. 86 p935-952.

Explicit Computation of Discontinuous Channel Flow, Nikolaos D. Katapodes and Chien-Tai Wu, HY June 86 p456-475.

Infinitesimal Cross-Wave Analysis, Willi H. Hager and Mustapha S. Altinakar, HY Aug. 84 p1145-1150.

Open-Channel Flow Measurements with a Laser Doppler Anemometer, Iehisa Nezu and Wolfgang Rodi, HY May 86 p335-355.

Simple Model of Sediment-Laden Flows, Gary Parker and Neil L. Coleman, HY May 86 p356-375.

Structure of 3-D Flow in Rectangular Open Channels, Chao-Lin Chiu and Jyh-Dong Chiou, HY Nov. 86 p1050-1068.

Open channels

Experimental Studies on Sedimentation Due to Water Withdrawal, Peter J. M. Kerssens and Anne van Urk, HY July 86 p641-656.

Structure of 3-D Flow in Rectangular Open Channels, Chao-Lin Chiu and Jyh-Dong Chiou, HY Nov. 86 p1050-1068.

Outflows

Distribution Channels, W. H. Hager and P. U. Volkart, HY Oct. 86 p935-952.

Overflow

Prediction and Control of Downpull on Tunnel Gates, Eduard Naudascher, Palepu V. Rao, Andreas Richter, Patricio Vargas and Georg Wonik, HY May 86 p392-416.

Parameters

V-Notch Weir Calibration Using New Parameters, Robert N. Eli, HY Apr. 86 p321-325.

Peak flow

Errors in Stormwater Modeling—A Quantitative Assessment, Wolfgang Schilling and Lothar Fuchs, HY Feb. 86 p111-123.

Perturbation

Rectangular Cylinders in Flows with Harmonic Perturbations, Charles Knisely, Masaru Matsumoto and Friedrich Menacher, HY Aug. 86 p690-704.

Pipe flow

PIBS Model for Surcharged Pipe Flow, Chen Yu Chiang and Philip B. Bedient, HY Mar. 86 p181-192.

Pipe Network Analysis by Partial Pivoting Method, Ayodeji O. Demuren and Felix J. K. Ideriah, HY May 86 p327-334.

Pipe networks

Hydraulic Design Algorithms for Pipe Networks, Lindell E. Ormsbee and Don J. Wood, HY Dec. 86 p1195-1207.

Pipelines

Effect of Valve-Closure Schedule on Water Hammer, P. H. Azoury, M. Baasiri and H. Najm, HY Oct. 86 p890-903.

Pipes

System Dynamics Approach to Pipe Network Analysis, Kotaro Onizuka, HY Aug. 86 p728-749.

Plumes

Behavior of Density Currents on an Incline, Vahid Alavian, HY Jan. 86 p27-42.

Pollutants

Dispersion Tensor In Rotating Flows, Vahid Alavan, HY Aug. 86 p771-777.

Pollution

Unified Theory for Flood and Pollution Routing, Antonis D. Koussis, HY Dec. 83 p1652-1664.

Porous media

Estimation of Dispersion Coefficients in Porous Media, David A. Chin, HY July 86 p591-609.

Precipitation

Transformation of PMP to PMF: Case Studies, Bi-Huei Wang and Khalid Jawed, HY July 86 p547-561.

Precipitation rate

Short-Duration Precipitation for Billings, Montana, Mark M. Peterson, HY Nov. 86 p1089-1093.

Probability

Recurrence Interval of Long Hydrologic Events, R. Srikanthan and T. A. McMahon, HY June 86 p518-538.

Probability theory

Expected Transport Rate of Material on Seabed, Hidehiro Katsui and Eco W. Bijker, HY Sept. 86 p861-867.

Profiles

Method for Computing Bed Profiles During Floods, Saburo Komura, HY Sept. 86 p833-846.

Rainfall intensity

Short-Duration Precipitation for Billings, Montana, Mark M. Peterson, HY Nov. 86 p1089-1093.

Rainfall-runoff relationships

Errors in Stormwater Modeling—A Quantitative Assessment, Wolfgang Schilling and Lothar Fuchs, HY Feb. 86 p111-123.

Sediment Yield from Agricultural Watersheds, I. Bogardi, A. Bardossy, M. Fogel and L. Duckstein, HY Jan. 86 p64-70.

Rectangular cross section

Structure of 3-D Flow in Rectangular Open Channels, Chao-Lin Chiu and Jyh-Dong Chiou, HY Nov. 86 p1050-1068.

Reservoirs

Weather-Based Variations in Thermal Stratification, Steven W. Effler, Emmet M. Owens, Keith Schimel and John Dobi, HY Feb. 86 p159-165.

River beds

River-Bed Profiles with Imposed Sediment Load, Inbo Park and Subhash C. Jain, HY Apr. 86 p267-280.

Simulation of Missouri River Bed Degradation, Forrest M. Holly, Jr. and M. Fazle Karim, HY June 86 p497-517.

River flow

Downstream Transition of River Ice Jams, S. Beltaos and J. Wong, HY Feb. 86 p91-110.

Record St. Clair River Ice Jam of 1984, Jan A. Derecki and Frank H. Quinn, HY Dec. 86 p1182-1194.

Turbulent Structure in a River Bend, Habib O. Anwar, HY Aug. 86 p657-669.

River regulation

Formation and Effects of Alternate Bars, Martin N. R. Jaeggi, HY Feb. 84 p142-156.

Non-Conventional Solution for River Mouth Design, Martin N. R. Jaeggi, HY Jan. 86 p14-26.

Rivers

Experimental Studies on Sedimentation Due to Water Withdrawal, Peter J. M. Kerssens and Anne van Urk, HY July 86 p641-656.

Flow Resistance of River Ice Cover, Hung Tao Shen and Poojitha D. Yapa, HY Feb. 86 p142-156.

Meander Flow Model I: Development, A. Jacob Odgaard, HY Dec. 86 p1117-1136.

Meander Flow Model II: Applications, A. Jacob Odgaard, HY Dec. 86 p1137-1150.

River Channel Changes: Adjustments of Equilibrium, Howard H. Chang, HY Jan. 86 p43-55.

Stable Channels with Mobile Gravel Beds, Richard D. Hey and Colin R. Thorne, HY Aug. 86 p671-689.

Sand

Two Characteristic Features of the Airflow Boundary Layer over Sand, Jim Wu, HY Oct. 86 p976-978.

Sand waves

A Model for Flow over Two-Dimensional Bed Forms, S. R. McLean and J. Dungan Smith, HY Apr. 86 p300-317.

Scale effect

Cut-Throat Flume Characteristics, Robert J. Keller, HY Sept. 84 p1248-1263.

Scour

Formation and Effects of Alternate Bars, Martin N. R. Jaeggi, HY Feb. 84 p142-156.

Functional Trends of Scour at Bridge Piers, Arved J. Raudkivi, HY Jan. 86 p1-13.

Secondary flow

Coriolis Generated Secondary Currents in Channels, Rolf Larsson, HY Aug. 86 p750-767.

Dispersion Tensor In Rotating Flows, Vahid Alavan, HY Aug. 86 p771-777.

Structure of 3-D Flow in Rectangular Open Channels, Chao-Lin Chiu and Jyh-Dong Chiou, HY Nov. 86 p1050-1068.

Sediment

Armoring and Sorting Simulation in Alluvial Rivers, M. Fazle Karim and Forrest M. Holly, HY Aug. 86 p705-715.

Sediment concentration

Application of Sediment Pick-Up Function, Leo C. van Rijn, HY Sept. 86 p867-874.

Mathematical Modeling of Suspended Sediment in NonUniform Flows, Leo C. van Rijn, HY June 86 p433-455.

Simple Model of Sediment-Laden Flows, Gary Parker and Neil L. Coleman, HY May 86 p356-375.

Sediment control

Flow in Curved Converging Channel, Anastasia Damaskinidou-Georgiadou and Kenneth V. H. Smith, HY June 86 p476-496.

Sediment Control by Submerged Vanes, A. Jacob Odgaard and Anita Spoljaric, HY Dec. 86 p1164-1181.

Sediment deposits

Segmental Hydraulic Similarity in One-Dimensional Retarding Flow, Oner Yucel, HY May 86 p419-428.

Sediment load

Analysis and Comparisons of Degradation Models, Jau-Yau Lu and Hsieh W. Shen, HY Apr. 86 p281-299.

River-Bed Profiles with Imposed Sediment Load, Inbo Park and Subhash C. Jain, HY Apr. 86 p267-280.

Washload and Fine Sediment Load, Hyoseop S. Woo, Pierre Y. Julien and Everett V. Richardson, HY June 86 p541-545.

Sediment transport

Analysis and Comparisons of Degradation Models, Jau-Yau Lu and Hsieh W. Shen, HY Apr. 86 p281-299.

Bed Load Transport of Sediment Mixtures, R. Samaga Belle, G. Ranga Raju Kuttur and J. Garde Ramchandra, HY Nov. 86 p1003-1018.

Cohesive Sediment Transport Model, John Nicholson and Brian A. O'Connor, HY July 86 p621-640.

Expected Transport Rate of Material on Seabed, Hidehiro Katsui and Eco W. Bijker, HY Sept. 86 p861-867.

Experimental Studies on Sedimentation Due to Water Withdrawal, Peter J. M. Kerssens and Anne van Urk, HY July 86 p641-656.

Functional Trends of Scour at Bridge Piers, Arved J. Raudkivi, HY Jan. 86 p1-13.

Mathematical Modeling of Suspended Sediment in NonUniform Flows, Leo C. van Rijn, HY June 86 p433-455.

Non-Conventional Solution for River Mouth Design, Martin N. R. Jaeggi, HY Jan. 86 p14-26.

Sediment Transport Formula for Steep Channels, Graeme M. Smart, HY Mar. 84 p267-276.

Sediment Transport, Part III: Bed Forms and Alluvial Roughness, Leo C. van Rijn, HY Dec. 84 p1733-1754.

Simulation of Bed Armoring in Alluvial Channels, Hong-Yuan Lee and A. Jacob Odgaard, HY Sept. 86 p794-801.

Simulation of Missouri River Bed Degradation, Forrest M. Holly, Jr. and M. Fazle Karim, HY June 86 p497-517.

Suspended Load Transport of Sediment Mixtures, R. Samaga Belle, G. Ranga Raju Kittur and J. Garde Ramchandra, HY Nov. 86 p1019-1035.

Washload and Fine Sediment Load, Hyoseop S. Woo, Pierre Y. Julien and Everett V. Richardson, HY June 86 p541-545.

Sediment yield

Sediment Yield from Agricultural Watersheds, I. Bogardi, A. Bardossy, M. Fogel and L. Duckstein, HY Jan. 86 p64-70.

Seepage

Approximate Solution of Unsteady Groundwater Flows, Samuel O. Onyegegbu, HY Oct. 86 p971-975.

Shallow water

Explicit Computation of Discontinuous Channel Flow, Nikolaos D. Katopodes and Chien-Tai Wu, HY June 86 p456-475.

Practical Aspects of Accurate Tidal Computations, G. S. Stelling, A. K. Wiersma and J. B. T. M. Willemse, HY Sept. 86 p802-817.

Shear stress

Bed Load Transport of Sediment Mixtures, R. Samaga Belle, G. Ranga Raju Kuttur and J. Garde Ramchandra, HY Nov. 86 p1003-1018.

Expected Transport Rate of Material on Seabed, Hidehiro Katsui and Eco W. Bijker, HY Sept. 86 p861-867.

A Model for Flow over Two-Dimensional Bed Forms, S. R. McLean and J. Dungan Smith, HY Apr. 86 p300-317.

Simulation

Simulation of Missouri River Bed Degradation, Forrest M. Holly, Jr. and M. Fazle Karim, HY June 86 p497-517.

Simulation models

Practical Aspects of Accurate Tidal Computations, G. S. Stelling, A. K. Wiersma and J. B. T. M. Willemse, HY Sept. 86 p802-817.

Slopes

Behavior of Density Currents on an Incline, Vahid Alavian, HY Jan. 86 p27-42.

Sediment Transport Formula for Steep Channels, Graeme M. Smart, HY Mar. 84 p267-276.

Slope-Area Discharge Gaging in Mountain Rivers, James C. Bathurst, HY May 86 p376-391.

Slurry pipelines

Acoustic Wave Speeds for Slurries in Pipelines, Chyr Pying Liou, HY July 84 p945-957.

Soil loss equation

Sediment Yield from Agricultural Watersheds, I. Bogardi, A. Bardossy, M. Fogel and L. Duckstein, HY Jan. 86 p64-70.

Soil permeability

Design of Structures With Intermediate Filters, Akhilesh Kumar, Bharat Singh and Amrik S. Chawla, HY Mar. 86 p206-219.

Spatial distribution

Errors in Stormwater Modeling—A Quantitative Assessment, Wolfgang Schilling and Lothar Fuchs, HY Feb. 86 p111-123.

St. Lawrence River

Unsteady Flow Simulation for an Ice-Covered River, Poojitha D. Yapa and Hung Tao Shen, HY Nov. 86 p1036-1049.

State-of-the-art reviews

Advances in Hydraulic Engineering Practice: The Last Four Decades and Beyond, Rex A. Elder, HY Feb. 86 p73-89.

Statistical analysis

Skill Tests and Parametric Statistics for Model Evaluation, J. Steven Dingman and Keith W. Bedford, HY Feb. 86 p124-141.

Steady flow

Distribution Channels, W. H. Hager and P. U. Volkart, HY Oct. 86 p935-952.

Rectangular Cylinders in Flows with Harmonic Perturbations, Charles Knisely, Masaru Matsumoto and Friedrich Menacher, HY Aug. 86 p690-704.

Steady state

System Dynamics Approach to Pipe Network Analysis, Kotaro Onizuka, HY Aug. 86 p728-749.

Stilling basins

Incipient Jump Condition for Ventilated Sill Flow,

Willi H. Hager, Bruno Basler and Robert Wanoschek, HY Oct. 86 p953-963.

Storm drainage

Short-Duration Precipitation for Billings, Montana, Mark M. Peterson, HY Nov. 86 p1089-1093.

Storm surges

Skill Tests and Parametric Statistics for Model Evaluation, J. Steven Dingman and Keith W. Bedford, HY Feb. 86 p124-141.

Stormwater

PIBS Model for Surcharged Pipe Flow, Chen Yu Chiang and Philip B. Bedient, HY Mar. 86 p181-192.

Stratified flow

Dynamics of Jets in Two-Layer Stratified Fluids, Philip J. W. Roberts and P. Reid Matthews, HY Sept. 84 p1201-1217.

Inclined Plane Buoyant Jet in Stratified Fluid, Joseph H. W. Lee and Valiant W. L. Cheung, HY July 86 p580-589.

Model for Vertical Diffusion in Stratified Flows, Gerard A. L. Delvigne, HY Nov. 86 p1069-1086.

Spreading Layer of a Two-Dimensional Buoyant Jet, Roger B. Wallace and Steven J. Wright, HY June 84 p813-828.

Streambed armoring

Armoring and Sorting Simulation in Alluvial Rivers, M. Fazle Karim and Forrest M. Holly, HY Aug. 86 p705-715.

Formation and Effects of Alternate Bars, Martin N. R. Jaeggi, HY Feb. 84 p142-156.

Simulation of Bed Armoring in Alluvial Channels, Hong-Yuan Lee and A. Jacob Odgaard, HY Sept. 86 p794-801.

Streambeds

Meander Flow Model I: Development, A. Jacob Odgaard, HY Dec. 86 p1117-1136.

Meander Flow Model II: Applications, A. Jacob Odgaard, HY Dec. 86 p1137-1150.

Streamflow forecasting

Example of Flow Forecasting with Kalman Filter, Patricia Ngan and S. O. Russell, HY Sept. 86 p818-832.

Submerged vanes

Sediment Control by Submerged Vanes, A. Jacob Odgaard and Anita Spoljaric, HY Dec. 86 p1164-1181.

Surface waters

Skill Tests and Parametric Statistics for Model Evaluation, J. Steven Dingman and Keith W. Bedford, HY Feb. 86 p124-141.

Suspended load

Suspended Load Transport of Sediment Mixtures, R. Samaga Belle, G. Ranga Raju Kittur and J. Garde Ramchandra, HY Nov. 86 p1019-1035.

Suspended sediment

Mathematical Modeling of Suspended Sediment in NonUniform Flows, Leo C. van Rijn, HY June 86 p433-455.

Suspended Load Transport of Sediment Mixtures, R. Samaga Belle, G. Ranga Raju Kittur and J. Garde Ramchandra, HY Nov. 86 p1019-1035.

Suspended sediments

Application of Sediment Pick-Up Function, Leo C. van Rijn, HY Sept. 86 p867-874.

Flow and Bed Profile in Meandering Sand-Silt Rivers, Syunsuke Ikeda and Tatsuya Nishimura, HY July 86 p562-579.

Simple Model of Sediment-Laden Flows, Gary Parker and Neil L. Coleman, HY May 86 p356-375.

Technology assessment

Advances in Hydraulic Engineering Practice: The Last Four Decades and Beyond, Rex A. Elder, HY Feb. 86 p73-89.

Thermal stratification

Weather-Based Variations in Thermal Stratification, Steven W. Effler, Emmet M. Owens, Keith Schimel and John Dobi, HY Feb. 86 p159-165.

Three-dimensional flow

Flow and Bed Profile in Meandering Sand-Silt Rivers, Syunsuke Ikeda and Tatsuya Nishimura, HY July 86 p562-579.

Structure of 3-D Flow in Rectangular Open Channels, Chao-Lin Chiu and Jyh-Dong Chiou, HY Nov. 86 p1050-1068.

Tidal waters

Practical Aspects of Accurate Tidal Computations, G. S. Stelling, A. K. Wiersma and J. B. T. M. Willemse, HY Sept. 86 p802-817.

Tides

Selecting Terminal Water Surface Elevations, Lester S. Dixon and Belinda A. Sullivan, HY May 86 p428-431.

Topography

Flow and Bed Profile in Meandering Sand-Silt Rivers, Syunsuke Ikeda and Tatsuya Nishimura, HY July 86 p562-579.

Stable Channels with Mobile Gravel Beds, Richard D. Hey and Colin R. Thorne, HY Aug. 86 p671-689.

Torsion

Flexural-Torsional Buckling of Arches, John P. Papangelis and Nicholas S. Trahair, HY Nov. 86 p2494-2511.

Transient flow

System Dynamics Approach to Pipe Network Analysis, Kotaro Onizuka, HY Aug. 86 p728-749.

Transport rate

Application of Sediment Pick-Up Function, Leo C. van Rijn, HY Sept. 86 p867-874.

Bed Load Transport of Sediment Mixtures, R. Samaga Belle, G. Ranga Raju Kuttur and J. Garde Ramchandra, HY Nov. 86 p1003-1018.

Expected Transport Rate of Material on Seabed, Hidehiro Katsui and Eco W. Bijker, HY Sept. 86 p861-867.

Simulation of Bed Armoring in Alluvial Channels, Hong-Yuan Lee and A. Jacob Odgaard, HY Sept. 86 p794-801.

Suspended Load Transport of Sediment Mixtures, R. Samaga Belle, G. Ranga Raju Kittur and J. Garde Ramchandra, HY Nov. 86 p1019-1035.

Turbulence

Open-Channel Flow Measurements with a Laser Doppler Anemometer, Iehisa Nezu and Wolfgang Rodi, HY May 86 p335-355.

Turbulence Measurements in the Great Ouse Estuary, John R. West, Donald W. Knight and Koji Shiono, HY Mar. 86 p167-180.

Turbulence Modelling of Flood Plain Flows, Bommanna G. Krishnappan and Y. Lam Lau, HY Apr. 86 p251-266.

Turbulent Structure in a River Bend, Habib O. Anwar, HY Aug. 86 p657-669.

Turbulent flow

Coriolis Generated Secondary Currents in Channels, Rolf Larsson, HY Aug. 86 p750-767.

Uncertainty principles

Hydraulic Uncertainties in Flood Levee Capacity, Han-Lin Lee and Larry W. Mays, HY Oct. 86 p928-934.

Uniform flow

Application of Sediment Pick-Up Function, Leo C. van Rijn, HY Sept. 86 p867-874.

Unsteady flow

Approximate Solution of Unsteady Groundwater Flows, Samuel O. Onyegegbu, HY Oct. 86 p971-975.

Rectangular Cylinders in Flows with Harmonic Perturbations, Charles Knisely, Masaru Matsumoto and Friedrich Menacher, HY Aug. 86 p690-704.

Unsteady Flow Simulation for an Ice-Covered River, Poojitha D. Yapa and Hung Tao Shen, HY Nov. 86 p1036-1049.

Uplift pressure

Design of Structures With Intermediate Filters, Akhilesh Kumar, Bharat Singh and Amrik S. Chawla, HY Mar. 86 p206-219.

Urban runoff

Short-Duration Precipitation for Billings, Montana, Mark M. Peterson, HY Nov. 86 p1089-1093.

Valves

Effect of Valve-Closure Schedule on Water Hammer, P. H. Azoury, M. Baasiri and H. Najm, HY Oct. 86 p890-903.

Velocity

Development of a Hydrogen Bubble Velocity Meter, Christopher R. Ellis and Heinz G. Stefan, HY Jan. 86 p59-64.

Velocity distribution

Velocity Distribution Coefficients for Grass-Lined Channels, Darrel M. Temple, HY Mar. 86 p193-205.

Velocity profile

Turbulent Structure in a River Bend, Habib O. Anwar, HY Aug. 86 p657-669.

Viscosity

Two-Dimensional Mass Transport in Estuaries, Wu-Seng Lung and Donald J. O'Connor, HY Oct. 84 p1340-1357.

Vortices

Free-Surface Air Core Vortex, A. Jacob Odgaard, HY July 86 p610-620.

Wash load

Washload and Fine Sediment Load, Hyoseop S. Woo, Pierre Y. Julien and Everett V. Richardson, HY June 86 p541-545.

Wastewater disposal

Model for Vertical Diffusion in Stratified Flows, Gerard A. L. Delvigne, HY Nov. 86 p1069-1086.

Water distribution

Hydraulic Design Algorithms for Pipe Networks, Lindell E. Ormsbee and Don J. Wood, HY Dec. 86 p1195-1207.

Pipe Network Analysis by Partial Pivoting Method, Ayodeji O. Demuren and Felix J. K. Ideriah, HY May 86 p327-334.

Water flow

Development of a Hydrogen Bubble Velocity Meter, Christopher R. Ellis and Heinz G. Stefan, HY Jan. 86 p59-64.

Meander Flow Model I: Development, A. Jacob Odgaard, HY Dec. 86 p1117-1136.

Meander Flow Model II: Applications, A. Jacob Odgaard, HY Dec. 86 p1137-1150.

Water hammer

Acoustic Wave Speeds for Slurries in Pipelines, Chyr Pying Liou, HY July 84 p945-957.

Effect of Valve-Closure Schedule on Water Hammer, P. H. Azoury, M. Baasiri and H. Najm, HY Oct. 86 p890-903.

Water levels

Record St. Clair River Ice Jam of 1984, Jan A. Derecki and Frank H. Quinn, HY Dec. 86 p1182-1194.

Skill Tests and Parametric Statistics for Model Evaluation, J. Steven Dingman and Keith W. Bedford, HY Feb. 86 p124-141.

Water quality

Advective Acceleration and Mass Transport in Estuaries, Wu-Seng Lung, HY Sept. 86 p874-878.

Water surface

Selecting Terminal Water Surface Elevations, Lester S. Dixon and Belinda A. Sullivan, HY May 86 p428-431.

Water surface profiles

Distribution Channels, W. H. Hager and P. U. Volkart, HY Oct. 86 p935-952.

Friction Slope Averaging in Backwater Calculations, Eric M. Laurenson, HY Dec. 86 p1151-1163.

Wave propagation

Practical Aspects of Accurate Tidal Computations, G. S. Stelling, A. K. Wiersma and J. B. T. M. Willemse, HY Sept. 86 p802-817.

Waves

Infinitesimal Cross-Wave Analysis, Willi H. Hager and Mustapha S. Altinakar, HY Aug. 84 p1145-1150.

Weirs

V-Notch Weir Calibration Using New Parameters, Robert N. Eli, HY Apr. 86 p321-325.

Wind speed

Weather-Based Variations in Thermal Stratification, Steven W. Effler, Emmet M. Owens, Keith Schimel and John Dobi, HY Feb. 86 p159-165.

Wind velocity

Two Characteristic Features of the Airflow Boundary Layer over Sand, Jim Wu, HY Oct. 86 p976-978.

Author Index

Adams, J. Rodgers
see Bhowmik, Nani G., HY Oct. 86, p967-970

Alavan, Vahid
Dispersion Tensor In Rotating Flows, HY Aug. 86, p771-777

Alavian, Vahid
Behavior of Density Currents on an Incline, HY Jan. 86, p27-42

Altinakar, Mustapha S.
see Hager, Willi H., HY Aug. 84, p1145-1150

Anwar, Habib O.
Turbulent Structure in a River Bend, HY Aug. 86, p657-669

Azoury, P. H.
Effect of Valve-Closure Schedule on Water Hammer, with M. Baasiri and H. Najm, HY Oct. 86, p890-903

Baasiri, M.
see Azoury, P. H., HY Oct. 86, p890-903

Ballofet, Armando
disc. (of Cut-Throat Flume Characteristics, by Robert J. Keller, HY Sept. 84, p1248-1263), HY Nov. 86, p1105-1106

Bardossy, A.
see Bogardi, I., HY Jan. 86, p64-70

Basler, Bruno
see Hager, Willi H., HY Oct. 86, p953-963

Bathurst, James C.
Slope-Area Discharge Gaging in Mountain Rivers, HY May 86, p376-391
disc. (of Formation and Effects of Alternate Bars, by Martin N. R. Jaeggi, HY Feb. 84, p142-156) with Huu Hai Cao, HY Nov. 86, p1101-1104

Bayazit, M.
disc. (of Sediment Transport Formula for Steep Channels, by Graeme M. Smart, HY Mar. 84, p267-276), HY Oct. 86, p985-986

Bedford, Keith W.
see Dingman, J. Steven, HY Feb. 86, p124-141

Bedient, Philip B.
see Chiang, Chen Yu, HY Mar. 86, p181-192

Begin, Ze'ev B.
Curvature Ratio and Rate of River Bend Migration—Update, HY Oct. 86, p904-908

Belle, R. Samaga
Bed Load Transport of Sediment Mixtures, with G. Ranga Raju Kuttur and J. Garde Ramchandra, HY Nov. 86, p1003-1018
Suspended Load Transport of Sediment Mixtures, with G. Ranga Raju Kittur and J. Garde Ramchandra, HY Nov. 86, p1019-1035

Beltaos, S.
Downstream Transition of River Ice Jams, with J. Wong, HY Feb. 86, p91-110

Bhowmik, Nani G.
Fate of Navigation Pool on Mississippi River, with J. Rodgers Adams and Richard E. Sparks, HY Oct. 86, p967-970

Bijker, Eco W.
see Katsui, Hidehiro, HY Sept. 86, p861-867

Bogardi, I.
Sediment Yield from Agricultural Watersheds, with A. Bardossy, M. Fogel and L. Duckstein, HY Jan. 86, p64-70

Buhler, Johannes
disc. (of Spreading Layer of a Two-Dimensional Buoyant Jet, by Roger B. Wallace and Steven J. Wright, HY June 84, p813-828), HY Oct. 86, p992-994

Cao, Huu Hai
disc. (of Sediment Transport Formula for Steep Channels, by Graeme M. Smart, HY Mar. 84, p267-276), HY Oct. 86, p987-989
see Bathurst, James C., (disc), HY Nov. 86, p1101-1104

Chang, Howard H.
River Channel Changes: Adjustments of Equilibrium, HY Jan. 86, p43-55

Chawla, Amrik S.
see Kumar, Akhilesh, HY Mar. 86, p206-219

Cheung, Valiant W. L.
see Lee, Joseph H. W., HY July 86, p580-589

Chiang, Chen Yu
PIBS Model for Surcharged Pipe Flow, with Philip B. Bedient, HY Mar. 86, p181-192

Chin, David A.
Estimation of Dispersion Coefficients in Porous Media, HY July 86, p591-609

Chiou, Jyh-Dong
see Chiu, Chao-Lin, HY Nov. 86, p1050-1068

Chiu, Chao-Lin
Structure of 3-D Flow in Rectangular Open Channels, with Jyh-Dong Chiou, HY Nov. 86, p1050-1068

Christodolou, George C.
see Noutsopoulos, George C., (disc), HY May 85, p884-888

Coleman, Neil L.
see Parker, Gary, HY May 86, p356-375

Daily, James
Lessons from a Career in Hydraulics, HY Sept. 86, p779-793

Damaskinidou-Georgiadou, Anastasia
Flow in Curved Converging Channel, with Kenneth V. H. Smith, HY June 86, p476-496

Delvigne, Gerard A. L.
Model for Vertical Diffusion in Stratified Flows, HY Nov. 86, p1069-1086

Demetriou, John D.
see Knight, Donald W., HY Aug. 83, p1073-1092

Demuren, Ayodeji O.
Pipe Network Analysis by Partial Pivoting Method, with Felix J. K. Ideriah, HY May 86, p327-334

Derecki, Jan A.
Record St. Clair River Ice Jam of 1984, with Frank H. Quinn, HY Dec. 86, p1182-1194

Dingman, J. Steven
Skill Tests and Parametric Statistics for Model Evaluation, with Keith W. Bedford, HY Feb. 86, p124-141

Dixon, Lester S.
Selecting Terminal Water Surface Elevations, with Belinda A. Sullivan, HY May 86, p428-431

Dobi, John
see Effler, Steven W., HY Feb. 86, p159-165

Downing, John K.
see Taft, Edward P., III, HY Mar. 86, p239-242

Duckstein, L.
see Bogardi, I., HY Jan. 86, p64-70

Effler, Steven W.
Weather-Based Variations in Thermal Stratification, with Emmet M. Owens, Keith Schimel and John Dobi, HY Feb. 86, p159-165

Elder, Rex A.
Advances in Hydraulic Engineering Practice: The Last Four Decades and Beyond, HY Feb. 86, p73-89

Eli, Robert N.
V-Notch Weir Calibration Using New Parameters, HY Apr. 86, p321-325

Ellis, Christopher R.
Development of a Hydrogen Bubble Velocity Meter, with Heinz G. Stefan, HY Jan. 86, p59-64

Fain, Theodoric G.
Forces on Lifting Beams Used with Three-Leaf Intake Gates, with Svein Vigander, HY Sept. 86, p847-858

Fernando, Harindra J. S.
disc. (of Dynamics of Jets in Two-Layer Stratified Fluids, by Philip J. W. Roberts and P. Reid Matthews, HY Sept. 84, p1201-1217), HY Nov. 86, p1107-1110

Fogel, M.
see Bogardi, I., HY Jan. 86, p64-70

Fuchs, Lothar
see Schilling, Wolfgang, HY Feb. 86, p111-123

Gill, Mohammed Akram
disc. (of Unified Theory for Flood and Pollution Routing, by Antonis D. Koussis, HY Dec. 83, p1652-1664), HY Oct. 86, p981-983

Hadrys, Heinz P.
disc. (of Flood Plain and Main Channel Flow Interaction, by Donald W. Knight and John D. Demetriou, HY Aug. 83, p1073-1092), HY May 85, p881-884

Hager, W. H.
Distribution Channels, with P. U. Volkart, HY Oct. 86, p935-952

Hager, Willi H.
Incipient Jump Condition for Ventilated Sill Flow, with Bruno Basler and Robert Wanoschek, HY Oct. 86, p953-963
Infinitesimal Cross-Wave Analysis, with Mustapha S. Altinakar, HY Aug. 84, p1145-1150
err: HY Mar. 86, p245

Haque, Muhammad I.
Analytical Study on Steepness of Ripples and Dunes, with Khalid Mahmood, HY Mar. 86, p220-236

Hey, Richard D.
Stable Channels with Mobile Gravel Beds, with Colin R. Thorne, HY Aug. 86, p671-689

Ho, K. L.
see Lee, Joseph H. W., (disc), HY Oct. 86, p994-997

Ho, Shin-Ya
see Yen, Chin-lien, (disc), HY May 85, p889-891

Holly, Forrest M.
disc. (of Computation of Dynamic Waves in Channel Networks, by Ian B. Joliffe, HY Oct. 84, p1358-1370), HY Mar. 86, p246
see Karim, M. Fazle, HY Aug. 86, p705-715

Holly, Forrest M., Jr.
Simulation of Missouri River Bed Degradation, with M. Fazle Karim, HY June 86, p497-517

Ideriah, Felix J. K.
see Demuren, Ayodeji O., HY May 86, p327-334

Ikeda, Syunsuke
Flow and Bed Profile in Meandering Sand-Silt Rivers, with Tatsuya Nishimura, HY July 86, p562-579

Jaeggi, Martin N. R.
Formation and Effects of Alternate Bars, HY Feb. 84, p142-156
disc: James C. Bathurst and Huu Hai Cao, HY Nov. 86, p1101-1104
clo: HY Nov. 86, p1104-1105
Non-Conventional Solution for River Mouth Design, HY Jan. 86, p14-26

Jain, Subhash C.
see Park, Inbo, HY Apr. 86, p267-280

Jawed, Khalid
see Wang, Bi-Huei, HY July 86, p547-561

Joliffe, Ian B.
Computation of Dynamic Waves in Channel Networks, HY Oct. 84, p1358-1370
disc: Forrest M. Holly, HY Mar. 86, p246
disc: Chintu Lai and Raymond W. Schaffranek, HY Mar. 86, p246-249

Julien, Pierre Y.
see Woo, Hyoseop S., HY June 86, p541-545

Karim, M. Fazle
Armoring and Sorting Simulation in Alluvial Rivers, with Forrest M. Holly, HY Aug. 86, p705-715
see Holly, Forrest M., Jr., HY June 86, p497-517

Katapodes, Nikolaos D.
Explicit Computation of Discontinuous Channel Flow, with Chien-Tai Wu, HY June 86, p456-475

Katopodis, Christos
see Rajaratnam, Nallamuthu,, HY Oct. 86, p909-927

Katsui, Hidehiro
Expected Transport Rate of Material on Seabed, with Eco W. Bijker, HY Sept. 86, p861-867

Keller, Robert J.
Cut-Throat Flume Characteristics, HY Sept. 84, p1248-1263
disc: Armando Ballofet, HY Nov. 86, p1105-1106
clo: HY Nov. 86, p1106-1107

Kerssens, Peter J. M.
Experimental Studies on Sedimentation Due to Water Withdrawal, with Anne van Urk, HY July 86, p641-656

Kittur, G. Ranga Raju
see Belle, R. Samaga, HY Nov. 86, p1019-1035

Knight, Donald W.
Flood Plain and Main Channel Flow Interaction, with John D. Demetriou, HY Aug. 83, p1073-1092
disc: Heinz P. Hadrys, HY May 85, p881-884
disc: George C. Noutsopoulos and George C. Christodolou, HY May 85, p884-888
disc: Panos Prinos and Ronald D. Townsend, HY May 85, p886-888
disc: Chin-lien Yen and Shin-Ya Ho, HY May 85, p889-891
clo: HY Nov. 86, p1097-1101
see West, John R., HY Mar. 86, p167-180

Knisely, Charles
Rectangular Cylinders in Flows with Harmonic Perturbations, with Masaru Matsumoto and Friedrich Menacher, HY Aug. 86, p690-704

Komura, Saburo
Method for Computing Bed Profiles During Floods, HY Sept. 86, p833-846

Koussis, Antonis D.
Unified Theory for Flood and Pollution Routing, HY Dec. 83, p1652-1664
disc: Mohammed Akram Gill, HY Oct. 86, p981-983
clo: HY Oct. 86, p983-985

Krishnappan, Bommanna G.
Turbulence Modelling of Flood Plain Flows, with Y. Lam Lau, HY Apr. 86, p251-266

Kumar, Akhilesh
Design of Structures With Intermediate Filters, with Bharat Singh and Amrik S. Chawla, HY Mar. 86, p206-219

Kuttur, G. Ranga Raju
see Belle, R. Samaga, HY Nov. 86, p1003-1018

Lafe, Olu
Errors in the Hydraulic Approach to Flows in Semi-Confined Aquifers, HY Oct. 86, p881-889

Lai, Chintu
disc. (of Computation of Dynamic Waves in Channel Networks, by Ian B. Joliffe, HY Oct. 84, p1358-1370) with Raymond W. Schaffranek, HY Mar. 86, p246-249

Larsson, Rolf
Coriolis Generated Secondary Currents in Channels, HY Aug. 86, p750-767

Lau, Y. Lam
see Krishnappan, Bommanna G., HY Apr. 86, p251-266

Laurenson, Eric M.
Friction Slope Averaging in Backwater Calculations, HY Dec. 86, p1151-1163

Lee, Han-Lin
Hydraulic Uncertainties in Flood Levee Capacity, with Larry W. Mays, HY Oct. 86, p928-934

Lee, Hong-Yuan
Simulation of Bed Armoring in Alluvial Channels, with A. Jacob Odgaard, HY Sept. 86, p794-801

Lee, Joseph H. W.
Inclined Plane Buoyant Jet in Stratified Fluid, with Valiant W. L. Cheung, HY July 86, p580-589
disc. (of Spreading Layer of a Two-Dimensional Buoyant Jet, by Roger B. Wallace and Steven J. Wright, HY June 84, p813-828) with K. L. Ho, HY Oct. 86, p994-997

Liou, Chyr Pying
Acoustic Wave Speeds for Slurries in Pipelines, HY July 84, p945-957
disc: Gunther Vogel, HY Oct. 86, p1000-1001
clo: HY Oct. 86, p1001

Lu, Jau-Yau
Analysis and Comparisons of Degradation Models, with Hsieh W. Shen, HY Apr. 86, p281-299

Lung, Wu-Seng
Advective Acceleration and Mass Transport in Estuaries, HY Sept. 86, p874-878
Two-Dimensional Mass Transport in Estuaries, with Donald J. O'Connor, HY Oct. 84, p1340-1357
err: HY Sept. 86, p879

McDowell, Donald M.
disc. (of Sediment Transport, Part III: Bed Forms and Alluvial Roughness, by Leo C. van Rijn, HY Dec. 84, p1733-1754), HY Nov. 86, p1113-1114

McLean, S. R.
A Model for Flow over Two-Dimensional Bed Forms, with J. Dungan Smith, HY Apr. 86, p300-317

McMahon, T. A.
see Srikanthan, R., HY June 86, p518-538

Mahmood, Khalid
see Haque, Muhammad I., HY Mar. 86, p220-236

Matsumoto, Masaru
see Knisely, Charles, HY Aug. 86, p690-704

Matthews, P. Reid
see Roberts, Philip J. W., HY Sept. 84, p1201-1217

Mays, Larry W.
see Lee, Han-Lin, HY Oct. 86, p928-934

Menacher, Friedrich
see Knisely, Charles, HY Aug. 86, p690-704

Mussalli, Yusuf G.
see Taft, Edward P., III, HY Mar. 86, p239-242

Najm, H.
see Azoury, P. H., HY Oct. 86, p890-903

Naudascher, Eduard
Prediction and Control of Downpull on Tunnel Gates, with Palepu V. Rao, Andreas Richter, Patricio Vargas and Georg Wonik, HY May 86, p392-416

Nezu, Iehisa
Open-Channel Flow Measurements with a Laser Doppler Anemometer, with Wolfgang Rodi, HY May 86, p335-355

Ngan, Patricia
Example of Flow Forecasting with Kalman Filter, with S. O. Russell, HY Sept. 86, p818-832

Nicholson, John
Cohesive Sediment Transport Model, with Brian A. O'Connor, HY July 86, p621-640

Nishimura, Tatsuya
see Ikeda, Syunsuke, HY July 86, p562-579

Noutsopoulos, George C.
disc. (of Flood Plain and Main Channel Flow Interaction, by Donald W. Knight and John D. Demetriou, HY Aug. 83, p1073-1092) with George C. Christodolou, HY May 85, p884-888

O'Connor, Brian A.
see Nicholson, John, HY July 86, p621-640

O'Connor, Donald J.
see Lung, Wu-Seng, HY Oct. 84, p1340-1357

Odgaard, A. Jacob
Free-Surface Air Core Vortex, HY July 86, p610-620
Meander Flow Model I: Development, HY Dec. 86, p1117-1136
Meander Flow Model II: Applications, HY Dec. 86, p1137-1150
Sediment Control by Submerged Vanes, with Anita Spoljaric, HY Dec. 86, p1164-1181
see Lee, Hong-Yuan, HY Sept. 86, p794-801

O'Neil, James
see Taft, Edward P., III, HY Mar. 86, p239-242

Onizuka, Kotaro
System Dynamics Approach to Pipe Network Analysis, HY Aug. 86, p728-749

Onyegegbu, Samuel O.
Approximate Solution of Unsteady Groundwater Flows, HY Oct. 86, p971-975

Ormsbee, Lindell E.
Hydraulic Design Algorithms for Pipe Networks, with Don J. Wood, HY Dec. 86, p1195-1207

Owens, Emmet M.
see Effler, Steven W., HY Feb. 86, p159-165

Papangelis, John P.
Flexural-Torsional Buckling of Arches, with Nicholas S. Trahair, HY Nov. 86, p2494-2511

Park, Inbo
River-Bed Profiles with Imposed Sediment Load, with Subhash C. Jain, HY Apr. 86, p267-280

Parker, Gary
Simple Model of Sediment-Laden Flows, with Neil L. Coleman, HY May 86, p356-375

Peterson, Mark M.
Short-Duration Precipitation for Billings, Montana, HY Nov. 86, p1089-1093

Ponce, Victor Miguel
Diffusion Wave Modeling of Catchment Dynamics, HY Aug. 86, p716-727

Prinos, Panos
disc. (of Flood Plain and Main Channel Flow Interaction, by Donald W. Knight and John D. Demetriou, HY Aug. 83, p1073-1092) with Ronald D. Townsend, HY May 85, p886-888

Quinn, Frank H.
see Derecki, Jan A., HY Dec. 86, p1182-1194

Rajaratnam, Nallamuthu
Hydraulics of Vertical Slot Fishways, with Gary Van der Vinne and Christos Katopodis, HY Oct. 86, p909-927

Ramchandra, J. Garde
see Belle, R. Samaga, HY Nov. 86, p1003-1018
see Belle, R. Samaga, HY Nov. 86, p1019-1035

Rao, Palepu V.
see Naudascher, Eduard, HY May 86, p392-416

Raudkivi, Arved J.
Functional Trends of Scour at Bridge Piers, HY Jan. 86, p1-13

Richardson, Everett V.
see Woo, Hyoseop S., HY June 86, p541-545

Richter, Andreas
see Naudascher, Eduard, HY May 86, p392-416

Roberts, Philip J. W.
Dynamics of Jets in Two-Layer Stratified Fluids, with P. Reid Matthews, HY Sept. 84, p1201-1217
disc: Harindsa J. S. Fernando, HY Nov. 86, p1107-1110
clo: HY Nov. 86, p1110-1113

Rodi, Wolfgang
see Nezu, Iehisa, HY May 86, p335-355

Russell, S. O.
see Ngan, Patricia, HY Sept. 86, p818-832

Schaffranek, Raymond W.
see Lai, Chintu, (disc), HY Mar. 86, p246-249

Schilling, Wolfgang
Errors in Stormwater Modeling—A Quantitative Assessment, with Lothar Fuchs, HY Feb. 86, p111-123

Schimel, Keith
see Effler, Steven W., HY Feb. 86, p159-165

Shen, Hsieh W.
see Lu, Jau-Yau, HY Apr. 86, p281-299

Shen, Hung Tao
Flow Resistance of River Ice Cover, with Poojitha D. Yapa, HY Feb. 86, p142-156
see Yapa, Poojitha D., HY Nov. 86, p1036-1049

Shiono, Koji
see West, John R., HY Mar. 86, p167-180

Singh, Bharat
see Kumar, Akhilesh, HY Mar. 86, p206-219

Smart, Graeme M.
Sediment Transport Formula for Steep Channels, HY Mar. 84, p267-276
disc: M. Bayazit, HY Oct. 86, p985-986
disc: Huu Hai Cao, HY Oct. 86, p987-989
disc: Tim J. Ward, HY Oct. 86, p989-990
clo: HY Oct. 86, p990-992

Smith, J. Dungan
see McLean, S. R., HY Apr. 86, p300-317

Smith, Kenneth V. H.
see Damaskinidou-Georgiadou, Anastasia, HY June 86, p476-496

Sparks, Richard E.
see Bhowmik, Nani G., HY Oct. 86, p967-970

Spoljaric, Anita
see Odgaard, A. Jacob, HY Dec. 86, p1164-1181

Srikanthan, R.
Recurrence Interval of Long Hydrologic Events, with T. A. McMahon, HY June 86, p518-538

Stefan, Heinz G.
see Ellis, Christopher R., HY Jan. 86, p59-64

Stelling, G. S.
Practical Aspects of Accurate Tidal Computations, with A. K. Wiersma and J. B. T. M. Willemse, HY Sept. 86, p802-817

Sullivan, Belinda A.
see Dixon, Lester S., HY May 86, p423-431

Taft, Edward P., III
Use of a Modified Traveling Screen for Improving Fish Survival, with Yusuf G. Mussalli, John K. Downing and James O'Neil, HY Mar. 86, p239-242

Temple, Darrel M.
Velocity Distribution Coefficients for Grass-Lined Channels, HY Mar. 86, p193-205

Thorne, Colin R.
see Hey, Richard D., HY Aug. 86, p671-689

Townsend, Ronald D.
see Prinos, Panos, (disc), HY May 85, p886-888

Trahair, Nicholas S.
see Papangelis, John P., HY Nov. 86, p2494-2511

Van der Vlane, Gary
see Rajaratnam, Nallamuthu,, HY Oct. 86, p909-927

van Rijn, Leo C.
Application of Sediment Pick-Up Function, HY Sept. 86, p867-874
Mathematical Modeling of Suspended Sediment in NonUniform Flows, HY June 86, p433-455
Sediment Transport, Part III: Bed Forms and Alluvial Roughness, HY Dec. 84, p1733-1754
disc: Donald M. McDowell, HY Nov. 86, p1113-1114
clo: HY Nov. 86, p1114-1116

van Urk, Anne
see Kerssens, Peter J. M., HY July 86, p641-656

Vargas, Patricio
see Naudascher, Eduard, HY May 86, p392-416

Vigander, Svein
see Fain, Theodoric G., HY Sept. 86, p847-858

Vogel, Gunther
disc. (of Acoustic Wave Speeds for Slurries in Pipelines, by Chyr Pying Liou, HY July 84, p945-957), HY Oct. 86, p1000-1001

Volkart, P. U.
see Hager, W. H., HY Oct. 86, p935-952

Wallace, Roger B.
Spreading Layer of a Two-Dimensional Buoyant Jet, with Steven J. Wright, HY June 84, p813-828
disc: Johannes Buhler, HY Oct. 86, p992-994
disc: Joseph H. W. Lee and K. L. Ho, HY Oct. 86, p994-997
clo: HY Oct. 86, p997-1000

Wang, Bi-Huei
Transformation of PMP to PMF: Case Studies, with Khalid Jawed, HY July 86, p547-561

Wanoschek, Robert
see Hager, Willi H., HY Oct. 86, p953-963

Ward, Tim J.
disc. (of Sediment Transport Formula for Steep Channels, by Graeme M. Smart, HY Mar. 84, p267-276), HY Oct. 86, p989-990

West, John R.
Turbulence Measurements in the Great Ouse Estuary, with Donald W. Knight and Koji Shiono, HY Mar. 86, p167-180

Wiersma, A. K.
see Stelling, G. S., HY Sept. 86, p802-817

Willemse, J. B. T. M.
see Stelling, G. S., HY Sept. 86, p802-817

Wong, J.
see Beltaos, S., HY Feb. 86, p91-110

Wonik, Georg
see Naudascher, Eduard, HY May 86, p392-416

Woo, Hyoseop S.
Washload and Fine Sediment Load, with Pierre Y. Julien and Everett V. Richardson, HY June 86, p541-545

Wood, Don J.
see Ormsbee, Lindell E., HY Dec. 86, p1195-1207

Wright, Steven J.
see Wallace, Roger B., HY June 84, p813-828

Wu, Chien-Tai
see Katapodes, Nikolaos D., HY June 86, p456-475

Wu, Jim
Two Characteristic Features of the Airflow Boundary Layer over Sand, HY Oct. 86, p976-978

Yapa, Poojitha D.
Unsteady Flow Simulation for an Ice-Covered River, with Hung Tao Shen, HY Nov. 86, p1036-1049
see Shen, Hung Tao, HY Feb. 86, p142-156

Yen, Chin-lien
disc. (of Flood Plain and Main Channel Flow Interaction, by Donald W. Knight and John D. Demetriou, HY Aug. 83, p1073-1092) with Shin-Ya Ho, HY May 85, p889-891

Yucel, Oner
Segmental Hydraulic Similarity in One-Dimensional Retarding Flow, HY May 86, p419-428